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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,239	07/09/2003	Ryoji Hanada	OGW-0273	8375	
23353 75	90 02/08/2006		EXAM	EXAMINER	
RADER FISHMAN & GRAUER PLLC			FISCHER,	FISCHER, JUSTIN R	
LION BUILDING 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
			1733		

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/615,239	HANADA, RYOJI				
		Examiner	Art Unit				
		Justin R. Fischer	1733				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).				
Status							
2a)□	Responsive to communication(s) filed on <u>13 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-16</u> is/are pending in the application. 4a) Of the above claim(s) <u>4-16</u> is/are withdrawn Claim(s) is/are allowed. Claim(s) <u>1-3</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.					
Applicati	on Papers						
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to athor or declaration is objected to by the Example 1.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	e of References Cited (PTO-892)	4) 🔲 Interview Summary					
2) D Notic 3) D Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa	atent Application (PTO-152)				

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DETAILED ACTION

1. The Notice of Non-Compliant Amendment has been withdrawn.

Election/Restrictions

2. Applicant's election without traverse of a tire having a residual strain between – 10 and 5 % in a side region X, claims 1-3, in the reply filed on August 25, 2005 is acknowledged.

Claim Rejections - 35 USC § 102/103

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over anticipated by Nagabuchi (JP 63051130). Nagabuchi teaches a pneumatic tire construction formed by the following method: green tire is positioned in a shaping mold (upper/lower rim assembly), filled with a pressure fluid to expand the green tire to a dimension/form near that of the product tire, and finally cured in a vulcanizing assembly/mold. The reference further

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tire) experienced during vulcanization and thus, prevents internal strains from developing within the tire. While Nagabuchi fails to expressly define the residual strain of the cords in the innermost carcass ply, it appears that the method of Nagabuchi would necessarily result in a carcass cord having the claimed residual strain. This is particularly the case in view of applicant's disclosure on Page 14, Lines 3+:

To reduce only the average of residual strain of the reinforcing cords in the side region X, the dimensions of parts of the shaping surfaces 12A and 13A corresponding to the side region X are set to the dimensions of the of the molding surfaces of the vulcanization mold <u>as closely as possible</u>.

As noted above, the method of Nagabuchi involves the formation of a green tire having dimensions (defined by the shaping surfaces of the shaping mold) that are near to the dimensions of the product tire (defined by the surfaces of the vulcanization mold). In this instance, the dimensions of Nagabuchi are "near" another- given the disclosure noted above, the tire of Nagabuchi would have been expected to demonstrate the claimed residual strain in the innermost carcass ply. In any event, one of ordinary skill in the art at the time of the invention would have found it obvious to form a tire having the claimed residual strain in view of the disclosed method. In particular, the method of the Nagabuchi desires a reduction in internal strain, as compared to conventional tires, which appears to be consistent with the tire of the claimed invention.

Lastly, in regards to the tire structure of the claimed invention, the disclosed elements represent the fundamental components of modern day tire constructions and while not expressly disclosed by Nagabuchi, one of ordinary skill in the art at the time of

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the invention would have expected the tire construction of Nagabuchi to contain the recited components. Additionally, one of ordinary skill in the art at the time of the invention would have found it obvious to form a tire having the fundamental structure of the claimed invention using the method of Nagabuchi.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R. Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Justin Fischer

February 3, 2006